

Amendments to the Claims

Please amend the claims in the manner indicated.

1-10. (cancelled)

11. (currently amended) A method for performing operations comprising:

receiving, by a wireless communications device, a first protocol data unit over an air interface, wherein the first protocol data unit includes

a first preamble to enable a receiver to synchronize, and which is received at a first modulation rate;

a first header, following the first preamble, which is received at the first modulation rate; and

the first service data unit, following the first header, which is received at a second modulation rate; and

receiving, by the wireless communications device, a second protocol data unit over the air interface subsequent to said receiving the first protocol data unit and before expiration of an interframe space;

wherein the second protocol data unit includes:

a second preamble, which is received at the first modulation rate;

a second header, following the second preamble, which is received at the first modulation rate; and

a second service data unit, following the second header, which is received at a third modulation rate;

wherein the second header further includes a data integrity field, the method further comprising determining whether the second header is valid using information in the data integrity field, and if the second header is not valid, evaluating at least one header-sized data segment subsequently received to attempt to find another possible header.

12-16. (cancelled)

17. (previously presented) The method of claim 11, wherein the interframe space is a time period selected from a group of time periods consisting of a short interframe space, a priority interframe space, a distributed interframe space, and an extended interframe space.

18. (original) The method of claim 11, wherein the header includes a physical device header.

19. (original) The method of claim 11, wherein the first modulation rate is in a range of approximately 6 to 12 megabits per second.

20. (original) The method of claim 11, wherein the second modulation rate is in a range of approximately 6 to 240 megabits per second.

21-29. (canceled)

30. (currently amended) An apparatus comprising:
a medium access control device to receive multiple data units from a physical device; and
the physical device, coupled to the medium access control device, the physical device to
receive a first protocol data unit over an air interface, wherein the first protocol
data unit includes

- a first preamble, to enable a receiver to synchronize;
- a first header, following the first preamble; and
- a first service data unit, following the first header; and

receive a second protocol data unit over the air interface, wherein the second
protocol data unit is to begin at a next symbol boundary after an end of said receiving the
first protocol data unit;

wherein the second protocol data unit includes:

- a second preamble;
- a second header, following the second preamble; and
- a second service data unit, following the second header;

wherein the second header further includes a data integrity field, and wherein the physical device is further to determine whether the second header is valid using information in the data integrity field, and if the second header is not valid, evaluate at least one header-sized data segment subsequently received to attempt to find another possible header.

31-35. (cancelled)

36. (previously presented) The apparatus of claim 30, wherein the interframe space is a time period selected from a group of time periods consisting of a short interframe space, a priority interframe space, a distributed interframe space, and an extended interframe space.

37. (original) The apparatus of claim 30, wherein the header includes a physical device header.

38-45. (canceled)

46. (currently amended) A computer-readable medium having program instructions stored thereon to perform a method, which when executed result in operations comprising:

receiving, by a wireless local area network device, a first protocol data unit over an air interface, wherein the first protocol data unit includes

a first preamble to enable a receiver to synchronize, and which is received at a first modulation rate;

a first header, following the first preamble, which is received at the first modulation rate; and

a first service data unit, following the first header, which is received at a second modulation rate; and

receiving, by the wireless local area network device, a second protocol data unit over the air interface subsequent to said receiving the first protocol data unit, with no more than ~~without~~ an interframe space between the first protocol data unit and the second protocol data unit;

wherein the second protocol data unit includes:

a second preamble, which is received at the first modulation rate;
a second header, following the second preamble, which is received at the first modulation rate; and
a second service data unit, following the second header, which is received at a third modulation rate;

wherein the second header further includes a data integrity field, and executing the program instructions further results in determining whether the second header is valid using information in the data integrity field, and if the second header is not valid, evaluating at least one header-sized data segment subsequently received to attempt to find another possible header.

47-51. (cancelled)